

SOV/20-120-3-45/67

On the Equilibrium of Sulfur Distribution Between Metal and Slag in Open-Hearth Furnaces

of the slag is decisive for the desulfurization. Contrary to current opinion an increase of the concentration of ferrous oxide does not essentially impair the thermodynamical conditions of steel desulfurization in slags of the Siemens-Martin type. At the same time an increase of the said concentration leads to a reduction of the viscosity of the slag and accelerates the processes of mass transfer in it. Fig 1 shows the values of the sulfur distribution coefficients in dependence upon Δ (difference between the mole-number of the basic and the acidous oxides contained in 100 g of slag = a measure of the basicity of the slag according to Grant and Chipman, Ref 1). From this the following fundamental conclusions can be drawn: 1) During the melting period the sulfur content in the slag exceeds the value corresponding to the equilibrium with the metal. This circumstance is caused by the transition of the sulfur from the furnace atmosphere into the slag. The transition of the sulfur from the slag to the metal proceeds slowly, its content, in the metal, however, rises (Fig 1). Moreover, the sulfur transition to the metal is chemically conditioned by

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' On the Equilibrium of Sulfur Distribution Between Metal and Slag in Open-Hearth Furnaces

the composition of the just formed slag. Then the slag is acidous. The Δ -values are negative (Fig 1) and the values of the equilibrium coefficients are very small. Figure 1 shows that during the melting period the desulfurization tends towards equilibrium along two ways: a) By the passage of sulfur from the slag to the metal and b) By the continuous change in the amount of slag and its composition. An increase in the amount of slag reduces the sulfur concentration, whereas an increase of the basicity increases the equilibrium coefficient of the distribution. In order to guarantee a combination of thermodynamic and kinetic conditions favorable to a successful desulfurization, such a slag regime must be maintained, in which a) The silicon content in the slag is kept low if possible during the entire melting process, and b) The slag is kept in a sufficiently liquid state. This is achieved by the introduction of liquefying admixions, such as agents containing ferrous oxide. There are 2 figures and 2 references, 1 of which is Soviet.

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On the Equilibrium of Sulfur Distribution Between Metal and Slag in Open-Hearth Furnaces

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ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii
(Central Scientific Research Institute of Ferrous Metallurgy)
Stalinskiy metalurgicheskiy zavod
(Stalino Metallurgical Plant)

PRESENTED: January 9, 1958, by G. V. Kurdyumov, Member, Academy of Sciences, USSR

SUBMITTED: January 9, 1958

1. Open hearth furnaces--Performance
2. Sulfur--Determination
3. Steel--Quality control
4. Slags--Properties

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18(0)

PHASE I BOOK EXPLOITATION

SOV/225

Centralny nauchno-issledovatel'skiy institut metallovedeniya i chisl'ki metallov
Problemy metallovedeniya i chisl'ki metallov (Problems in Physical
Metallurgy and Metallurgy) Moscow, Metallurgizdat, 1959;
540 p. (Series: Issl. Storznik trudov, 6) Kratkiy slip inserted.
3,000 copies printed.

Additional Sponsoring Agency: USSR. Gosnadarstvennaya plenova knitsiysya.

Ed. of Publishing House: Ye. M. Berlini Tech. Ed.: P. G. Isakovich
Editorial Board: D. S. Krasnenetskaya, B. Ya. Ivushin [resp. Ed.];
Ye. Z. Spektor, L. A. Shvartsman, L. A. Shvetsova [resp. Ed.]

PURPOSE: This book is intended for metallurgists, engineers, and specialists in the physics of metals.

COVERAGE: The papers in this collection present the results of investigations conducted between 1954 and 1956. Subjects

Card 1/18 covered include crystallization of metals, physical methods of influencing the processes of crystallization, problems in the physical chemistry of metallurgical processes, problems in the new methods and equipment for investigating, development of production control. References follow each article.

TABLE OF CONTENTS:

PART I. CRYSTALLIZATION OF METALS

Olipov, A. I., L. A. Shvartsman, V. Ye. Ivushin and N. L. Savchenko,
On the Uniform Distribution of a Small Addition in a 350-ton Open-Hearth
Furnace. The Production of Steel in a 350-ton (Open-Hearth) Furnace.

The distribution process was studied with the use of a radioactive isotope (Ca^{45}). It was shown that the use of a radioisotope in steel takes place at a considerably slower rate than in metal.

Shvartsman, L. A., A. I. Olipov, V. I. Alekseyev, V. F. Surkov,
N. L. Savchenko, N. T. Bul'dachik, A. M. Telesh, A. M. Sretensky,
Investigation of the Kinetics of Scrap Melting in the Open-Hearth Process.

A method for determining the speed of melting scrap in an open-hearth furnace on the basis of this investigation was developed. It is based on isotopic dilution. The method is based on the fact that the melting speed depends on the duration of the iron pouring process and carbon content in the bath.

Stupan', S. M. Investigation of the Transfer of Sulfur from the Gas Phase to the Bath in the Basic Open-Hearth Furnace. Place most intensively during the loading of the bath during the portion of the charge. The speed of sulfur absorption during this period is 17.25 percent per hour, during preheating 8-11 percent, and during final melting 3-7.5 percent. Percentage is based on the sulfur content in the metal.

SHVARTSMAN, L.A., doktor khim.nauk; OSIPOV, A.I., kand.tekhn.nauk;
ALEKSEYEV, V.I.; SUTOV, V.F.; SAZONOV, M.L.; BUL'SKIY, M.T.;
TELESOV, S.A.; SKREBTSOV, A.M.; OFENGENDEN, A.M.; GOL'DSHTERN,
L.G.; SVIRIDENKO, F.F.

Studying the kinetics of scrap melting in the scrap metal and
ore process. Probl.metalloved.i fiz.mat. no.6:326-343 '59.
(MIRA 12:8)

(Open-hearth process) (Scrap metal)

LETS&DVZ S.A.

18.3200

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Sov/135-50-10-6/39

AUTHORS: Belov, I. V. (Candidate of Technical Sciences),
Vil'yanatly, I. Ya., Glazkov, F. O., Krasnichen, D.
Ye., Tel'ebov, S. A., Borzov, N. I. (Engineers)

TITLE: Delivery of Air to Gas Ports by Fan to Intensify the Melting Process

PERIODICALS: Stal', 1959, Nr 10, pp 803-805 (USSR)

ABSTRACT: Partial combustion of gas in the doghouse occurs by fan-blown air at an approximate pressure of 600-mm water column, improving flame characteristics and drastically cutting power consumption for air blowing (7 to 10 times) in comparison to consumption by compressors or turbo-blowers. Blowing equipment is simple and provides an easy way of controlling air supply. At Stalino and Nizhniye Sergi Metallurgical Plants (Stalin'skiy zavod, Nizhne-Serginskiy zavod), fan blowing was installed in 1958. At Stalino Plant, open-hearth furnaces work by

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ASSOCIATION: All-Union Scientific Research Institute of Metalurgical Thermal Technology, Stalino and Nizhnye Sergi Metallurgical Plants (VNIMT, Stalin'skiy i Nizhne-Serginskiy metallurgicheskiye zavod)

9/137/62/000/001/014/237
A060/A101

AUTHORS: Glazkov, P. G., Sladkoshteyev, V. T., Telesov, S. A., Ofengenden, A. M., Strelets, V. M., Murzov, K. P.

TITLE: Study of the operation of a multi-jet casting unit for continuous pouring of steel

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 1, 1962, 62, abstract 1V392 ("Sb. tr. Ukr. n.-i. in-t metallov", 1961, no. 7, 133-142)

TEXT: On the basis of temperature measurements of steel in the furnace, in the ladle of 140-ton capacity, and also in a 2-stopper intermediate casting unit, and in the jets from the ladle and the casting unit, the heat losses of molten steel in the process of tapping and founding were determined. It was established that the first 18 - 20 tons of steel proceeding from the ladle and the casting unit have a relatively low temperature, which then increases and remains stable practically to the end of the founding. Taking into account that the low temperature of the first portions of the metal is the result of heat losses expended upon the heating up of the lining of the ladle and the casting unit and leads to a rapid obstruction of the channels of the steel-pouring

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Study of the operation of a multi-jet ...

nozzles, it is recommended to heat up the working layer of the lining up to 1,300 - 1,400°C. It is indicated that the raising of the lining temperature of the casting-unit lining between the limits 1,000 - 1,350°C reduces the steel temperature drop by 8 - 10°C per 100°C lining temperature increase. It is pointed out that the total obstruction of the nozzle channels is eliminated at the temperature of molten rimmed and killed (medium-carbon) steel in the furnace before tapping and in the casting unit (after pouring 3-6 tons), equal to 1,625 - 1,650 and 1,530 - 1,550°C respectively. Testing was carried out upon the composite nozzles of fireclay with zirconium, high-alumina, and magnesite bushings, and also upon biceramic ones with argillo-graphite and high-alumina working layer. It was established that in the course of pouring rimmed steel the lowest channel erosion and the most stable metal flow is ensured by high-alumina and zirconium bushings. In pouring killed steel it was established that the method of reducing the steel with Al has an effect upon the nature of steel action upon the nozzle material. In pouring steel reduced with Al during tapping the heat, the nozzle channel becomes stopped up in the course of pouring and requires repeated burning out with O₂. However, also in that case the best result is obtained with a zirconium bushing. In reducing killed steel with Al the most stable flow of metal in the jet from the casting unit was demonstrated

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Study of the operation of a multi-jet ...

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by zirconium and high-alumina bushings. Computational formulae are given for determining the channel diameter of the nozzle in the casting unit, which ensures a given flow of rimmed or killed steel.

I. Granat

[Abstracter's note: Complete translation]

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TELESOV, S.A.; OFENGENDEN, A.M.

Increasing the yield of killed steel ingots. Metallurg 9
no.4:18-19 Ap '64. (MIRA 17:9)

1. Donetskiy metallurgicheskiy zavod.

LISOVITSKAYA, D.M.; TELESOVA, A.I. (Khar'kov)

Infectious lymphocytosis. Vrach.delo no.1:1321 D '58.

(MIRA 12:3)

1. Medsanchast' zavoda imeni Malysheva.
(LYMPHATICS--DISEASES)

TELESZYNKI, Marian; Hlavaty, Antoni

Contribution to the operative treatment of idiopathic scoliosis.
Chir. narz. ruchu 22 no.3:267-270 1957.

1. Z Kliniki Ortopedycznej A. M. w Gdansku. Gdańsk, ul. Swierczewskiego
4-6, Klinika Ortopedyczna.
(SCOLIOSIS, surg.
idiopathic, technics & early results (Pol))

TELESZYNSKI, Marian (Gdansk, ul. Swierczewskiego 4, Klinika Ortopedyczna)

Wedge vertebra in achondroplasia. Chir. narz. ruchu 23 no.4:353-361
1958.

1. Z Kliniki Ortopedycznej A. M. w Gdansku Kierownik: prof. dr Z.
Ambros.

(ACHONDROPLASIA, compl.
wedge vertebra (Pol))
(SPINE, dis.
wedge vertebra in achondroplasia (Pol))

TOCZEK, St.; DOROTA, M.; TELESCZYNSKI, M.

Cerebral fat embolism, Polski przegl. chir. 30 no.10:989-997 Oct 58.

1. Z Kliniki Neurochirurgii A. M. w Warszawie Kierownik: prof. dr J. Chorobski orag z Oddzialu Ortopedycznego Szpitala Miejskiego w Warszawie i Kliniki Ortopedycznej A.M. w Gdansku. Kierownik: Prof. dr Z. Ambros. Adres autora: Stanislaw Toczek, Warszawa, ul. Smiala.

(CEREBRAL EMBOLISM AND THROMBOSIS
fat embolism (Pol))

TELESZYNSKI, Marian; FACZYNSKI, Andrzej; SZWALUK, Franciszek

Evaluation of the effect of overburdening of the hip joints unit-
erally-amputated subjects. Chir.narz.ruchu ortop.polska 24 no.6:
547-551 '59.

1. Z Kliniki Ortopedycznej AM w Gdansku. Kierownik: doc.dr
A. Senger.
(HIP physiol.)
(AMPUTEES)

TELESZYNSKI, M.; FACZYNSKI, A.; SZWALUK, F.

Attempted radiological evaluation of atrophic changes in the hip joint and femur following amputation of the lower extremity. Chir. narz. ruchu ortop. polska 26 no.6:751-758 '61.

1. Z Kliniki Ortopedycznej AM w Gdansku Kierownik: doc. A. Senger.
(HIP radiog) (FEMUR radiog)
(AMPUTATION)

TELESZYNSKI, Marian

Measured subtrochanteric detorsive osteotomy in reducing congenital
hip dislocation. Chir. narz. ruchu ortop. polska 27 no.2:153-162
'62.

1. Z Kliniki Ortopedycznej AM w Gdansku Kierownik: doc. dr A. Senger.
(HIP fract & disloc)

TELESZYNSIK, Z.

Treatment of burns according to experiments of the Institute of
Traumatic Surgery in Piekary Slaskie. Polski przegl. chir. 24 no.4:
522-533 July-Aug 1952. (CIML 23:4)

1. Of the Institute of Traumatic Surgery in Piekary Slaskie.

DAAB, Janusz; TELESZYNSKI, Zdzislaw

Primary suture of the skin in open fractures. Polski przegl.chir.
27 no.1:63-67 Jan 55.

1. Z wojewodzkiego Instytutu Chirurgii Urazowej, Piekarze Sl. Kierow-

nik naukowy: dr Wl.Sowinski.

(SUTURES,

skin in open fract., technic)

(FRACTURES,

open, primary sutures, technic)

TELESZYNSKI, Zdzislaw; BILIK, Adam; IDZIAK, Jozef

Results of treatment of spinal fractures associated with spinal cord injuries in a country hospital. Chir. narz. ruchu 22 no.4:415-417 1957.

1. Z Oddzialu ortopedyczno-urazowego Miejskiego Szpitala im. Wl. Bieganskiego w Czestochowie. Ordynator; dr Z. Teleszynski. Czestochowa, ul. Mickiewicza nr 12.

(SPINE, fractures

causing spinal cord inj. surg. (Pol))

(SPINAL CORD, wds. & inj.

caused by fract. of spine, surg. (Pol))

TELESZYNSKI, Zdzislaw (Czestochowa, ul. Pałczyńskiego 21.)

Tenosynovitis stenosans. Chir. narz. ruchu 13 no.2:153-155 1958.

l. Z Oddziału Ortopedyczno-Urazowego Miejskiego Szpitala im. wł.
Bieganskiego w Czestochowie. Ordynator: dr Z. Teleszyński.

(TENOSYNOVITIS,

Quervain's dis., clin. pathol. & ther. (Pol))

TELESZYNISKI, Zdzislaw; BILIK, Adam

The works of Wladyslaw Bieganski in the field of orthopedics and traumato-
logy. Chir.narz.ruchu 23 no.1:9-17 1958.

1. Z Oddzialu Ortopedycznego-Urazowego Miejskiego Szpitala im.dr.
Wladyslawa Bieganskiego w Czestochowie. Ordynator: dr Z. Teleszynski.
Adres autora: Czestochowa, ul. Mickiewicza 12.

(BIOGRAPHIES,
Bieganski, Wladyslaw (Pol))

TELESZYSKI, Zdzislaw; RIEDERMANN, Janina D.

Results of therapy of patellar fractures. Chir. narz. ruchu 24 no.2:
113-116 1959.

l. Oddzialu Ortopedyczno-Urazowego Miejskiego Szpitala im. Wl. Biegans-
kiego w Czestochowie. Ordynator: dr Z. Teleszynski. Adres autorow:
Czestochowa, ul. Mickiewicza 12.

(KNEE, wds. & inj.
patellar fract., ther. (Pol))

TELESZYNSKI, Zdzislaw; WEGLARZ, Zenon

A case of knee dislocation. Chir. narzad. ruchu ortop. Pol.
29 no. 4473-476 '64.

1. Z Oddzialu Ortopedyczno-Urazowego Powiatowego Szpitala im.
P. Pawlowa w Kozlu (Ordynator: dr med. Z. Teleszynski).

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CIA-RDP86-00513R001755210015-4

TELESZYNSKI, Zdzislaw; KNAPIK, Aleksey; NIEDZIAŁKOWSKI, Andriej; WOJCIK, Zenon

Injury of spinal ligaments. Chir. narzad. ruchu ortop. Pol. 29
no.6:697-701 '64

I.Z Oddzialu Ortopedyczno-Urazowego Powiatowego Szpitala im.
I.P. Pawlowa w Kozlu (ordynator: dr. med. Z. Teleszynski)

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CIA-RDP86-00513R001755210015-4"

TELESZYNISKI, Zdzislaw; KNAPIK, Aleksy; WEGLARZ, Zenon.

Effect of floor vibration on workers' health. Med. pracy 16
no.1:71-73 '65

1. Z Oddzialu Ortopedyczno-Urazowego Powiatowego Szpitala im.
I.P.Pawlawa w Kozlu (Ordynator: dr. med. Z. Teleszynski).

TELESZYNSKI, Zdzislaw, dr. med.; NIEDZIAŁKOWSKI, Andrzej

Femora vara congenita. Chir. narzad. ruchu ortop. Pol. 30
no.1867-68 '65.

1. Z Oddzialu Ortopedyczno-Urazowego Powiatowego Szpitala
imieni I.P. Pawlowa w Kozlu (Ordynator: dr. med. Z. Teleszynski).

TELESZYNSKI, Zdzislaw, dr. med. ; FIK, Marian

A case of dislocation of the elbow with simultaneous epi-
physiolysis of the ulna. Chir. narzad. ruchu ortop. Pol. 30 no.2:
143-146 '65.

1. Z Oddzialu Urazowego Woj. Stacji Pogotowia Ratunkowego w
Rzeszowie (Ordynator: dr. med. Z. Teleszynski).

S/649/61/000/139/004/018
I028/I228

AUTHOR: Teletov, S. G.

TITLE: Problems of experimental set-up and the theory of similitude

SOURCE: Moscow. Institut inzhenerov zheleznodorozhnogo transporta. Trudy, no. 139. 1961.
Teoriya podobiya i yeye primeneniye v teplotekhnike; trudy pervoi mezhvuzovskoy
konferentsii, 44-54

TEXT: The uses of mathematical analysis and experimentation in the investigation of complex processes, and the development of computing and modeling techniques have produced a change in the design of experiments. The possibility of solving almost any exactly formulated mathematical problem has replaced global methods by more narrow investigations of particular features of a complex phenomenon. Modeling methods based on the theory of similitude permit us to devise experiments on a strict scientific base, that must be so designed as to study deviations from existing laws: the generalization of the experimental data gives us then new, more general laws. It is inappropriate to try to fit experimental data into existing laws. Further experiments on specific subjects, such as the stabilized turbulent flow and the heat exchange in two-phase mixtures are recommended. There are 3 figures.

ASSOCIATION: Institut atomnoi energii AN SSSR (Institute of Atomic Energy, AS USSR)

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ACC NR: AP6032941

SOURCE CODE: UR/0026/66/000/009/0084/0092

26
B

AUTHOR: Teletov, G. S. (Moscow)

ORG: none

TITLE: Ball lightning

SOURCE: Priroda, no. 9, 1966, 84-92

TOPIC TAGS: ball lightning, lightning, electrodynamic collapse, plasma constriction

ABSTRACT: Past investigations and the current state-of-the-art of ball-lightning research are reviewed. A new hypothesis is advanced to explain the nature of the phenomenon. Existing theories, particularly those supporting an external power source, are rejected as being incompatible with observational data. Specifically, the theory of Kapitsa to the effect that ball lightning receives its power source from storm-clouds in the form of intense microwave radiation is considered untenable on the grounds that such clouds do not generate the radiation necessary to sustain a typical ball-lightning event as an electromagnetic resonator. A mechanism is described wherein ball lightning develops from streak lightning as the result of a strong electrodynamic constriction of the discharge. According to the hypothesis, ball lightning is viewed as essentially a glowingly hot plasma medium surrounding a cooler core. The core is, in effect, a metallic condensate of nitrogen and oxygen atoms possessing the properties of a solid body. The high specific energy of the ball

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lightning is associated with the internal energy of the phase state of this condensate. The core ring is held in the plasma by its magnetic field when a strong current circulates in it. The long lifetime of the phenomenon is assumed to result from the fact that the core ring is in a metastable and superconducting state. During a lightning discharge event, plasma constriction, called electrodynamic collapse, occurs causing the internal energy to rise to a critical value (1400 kcal/g) and effecting a phase transition. This process leads to the formation of the ball-lightning phenomenon. Orig. art. has: 5 figures. [DM]

SUB CODE: 04/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 004/ ATD PRESS:
5096

awm

Card 2/2

T.M. 107, U.S.

Mbr., Inst. Energetics iu. G. M. Krzhizhanovs ky, Dept. Tech. Sci.,
Acad. Sci., 1946. "On the Slow Separated Movement of Gas-Liquid Mixture," Izv. Ak., 1946,
No. 3, 1946. "The Coefficients of Movement of Mixing Two Phases," Dok. Ak., No. 5, 1946.

Among the papers presented by the First All-Union Conference on Aerohydrodynamics (8-13 Dec 1952) convened by the Institute of Mechanics, Academy of Sciences USSR, was:

"Equations of the Hydrodynamics and Energy of Biphasic Mixtures" by Teletov, S. G. (Power Engineering Institute imeni Krzhizhanovskiy)

SO: Izvestiya AN USSR, Otdeleniye Tekhnicheskikh Nauk, No. 6, Moscow,
June 1953, (W-30662, 12 July 1954)

TELETOV, S. G.

Among the papers presented by the First All-Union Conference on Aerohydrodynamics (8-13 Dec 1952) convened by the Institute of Mechanics, Academy of Sciences USSR, was:

"Experimental Investigations of the Flow of Gas-Liquid Mixtures in Pipes" by Teletov, S. G.

SO: Izvestiya AN USSR, Otdeleniye Tekhnicheskikh Nauk, No. 6, Moscow,
June 1953, (W-30662, 12 July 1954)

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6

Dynamics of electrolyte action in coagulation. I. Coagulation of iron hydroxide sol with acetates. V. M. Shandruk and S. V. Lopatin. Trudy Akad. Nauk UkrSSR, Ser. Khim. Nauk, No. 1, 1956, p. 121.

Zhur. Kemi 1956, No. 2, 670. --The effect of accompanying cations on the coagulation of derived Fe(OH)_3 sols by acetate was studied. On triangular diagrams sol- Fe(OH)_3 -acetate (50 millimoles/l.) (total vol. was kept const.) 3 areas were observed: (1) stable sols, (2) coagulation setting in after 23 hrs., and (3) turbid solns and ppt's. formed immediately after combination of the liquids. The concn. of Fe(OH)_3 was 2.4 g/l. (computed as Fe_2O_3) and the concn. of alkali metal ions was 16 millimoles/l. The exptl. results show that the coagulating action in the series $\text{LaOAc} < \text{NaOAc} < \text{KOAc}$ increases. This permits arrangement of the cations in decreasing order of their effect on the coagulating ability of the soln. in a series $\text{La}^+ > \text{Na}^+ > \text{K}^+$. For alk. earth metals (concn. = millimoles/l.) an analogous series was obtained $\text{Mg}^{2+} > \text{Ca}^{2+} > \text{Ba}^{2+}$. Co acetate had a slightly stronger coagulating effect than did NaOAc . After addition of 16 millimoles/l. acetate to a charged soln. of Fe(OH)_3 sol in pure water and at a concn. of 200 millimoles/l. the color changed to intense green. After these systems stood for 1 year neither ppt. nor turbidity could be observed. It is assumed that under such

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[] Electrophoretic study of mechanically dispersed latex
particles by Langmuir, G. V. Smith and S. G. Tolosa
and T. C. R. H. 1870-1910, 1910-1915, 1915-1920

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APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755210015-4"

TELETOV, S. G.

"Sorption Capacity of Argillaceous and Siliceous Khar'kov Formations". Report I.
Uch. Zap. Khar'kovsk. Un-ta, Vol. 50 Tr N-I. In-ta Khimii i Khim. Fak, Vol. 11,
pp 69-77, 1954.

Investigated the adsorption capacities of five samples of clays from Khar'kov formations for possible industrial use. Also investigated the adsorption properties of two technical adsorbents (gumbrin and sikeyevskiy tripoli) for comparison. Of the five samples investigated, diatomite was found to have the highest adsorption capacity for benzene and methylene blue. The investigations confirmed the usefulness of the Khar'kov formations as technical adsorbents. Also contains a review on sorptive properties of individual earths. (RZhKhim, No 4, 1955)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755210015-4"
SO: Sum No 884, 9 Apr 1956

124-57-1-714

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 1, p 91 (USSR)

AUTHOR: Teletov, S.G.

TITLE: On the Evaluation of Test Data on Steam and Gas-Liquid Mixtures in Terms of Dimensionless Quantities, and on an Experimental Technique (Ob obrabotke v bezrazmernykh velichinakh opytnykh dannykh po paro- i gazozhidkostnym smesiyam i o metodike eksperimenta)

PERIODICAL: V sb.: Gidrodinamika i teploobmen pri kipenii v kotlakh vyso-kogo davleniya, Moscow, AN SSSR, 1955, pp 46-64

ABSTRACT: Starting from the general equations of the hydrodynamics of two-phase mixtures, the problems encountered in the evaluation of test data on the flow of mixtures in vertical and horizontal tubes (both with and without heating) are examined. It is deduced that the effective pressures are definite functions of three criteria: 1) the reduced virtual specific gravity of the mixture γ ; 2) the coefficient of resistance of the mixture λ ; and 3) the conventional Froude number. In order to generalize them, it is indispensable that dependable relationships of γ and λ be known, which can be obtained only on air-liquid mix-

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124-57-1-714

On the Evaluation of Test Data on (cont.)

tures. Once the general laws governing γ and λ are established, they must then be reduced to a specific form based on the test data with steam-liquid mixtures for various heat-transfer agents. Another possible method of investigation, viz., a purely empirical evaluation of the effective pressure in terms of power products of the criteria, requires a large number of test data and lengthy investigations and, furthermore, is less reliable. An evaluation of experimental data on the hydraulic resistance of air-liquid mixtures in horizontal tubes in terms of the above-derived coefficients of resistance permitted the establishment of the limits of the deviations of λ from the corresponding values for single-phase liquids; these deviations vary between -50 and +80 percent. The substantial effect of the compressibility of the gas on the inertial pressure losses in the mixture reveals the necessity for a separate determination of the resistance due to friction and that due to acceleration.

Bibliograph: 14 references

Yu. A. Lashkov

1. Fluid flow--Test results--Evaluation 2. Gas liquid flow--Test results--Evaluation

Card 2/2

USSR/Chemistry - Colloidal chemistry

Card 1/1 Pub. 116 - 23/24

Authors : Teletov, S. G.; Luk'yanchenko, L. A.; and Karyakin, L. I.

Title : The absorbatibility and mineralogical composition of silico-clayey rocks
of the Kharkov stratum

Periodical : Ukr. khim. zhur. 21/2, 269-273, 1955

Abstract : A study of various silico-clayey rocks from the Kharkov stratum and clayey
rocks from other strata showed that the absorbatibility of these minerals
depends upon their mineralogical composition. The components determining
the absorbatibility of mineral rocks are described. The water solubility
of the surface characteristics of these components is explained. Seven
USSR references (1934-1953). Tables.

Institution : The A. M. Gorkiy State University, Faculty of Colloidal Chem., Kharkov

Submitted : March 20, 1954

5(4)

SOV/69-21-1-15/21

AUTHOR: Teletov, S.G.

TITLE: On the Problem of the Effect of Accompanying Ions on
the Coagulator Ion (K voprosu o vliyanii soputst-
vuyushchikh ionov na ion-koagulyator).

PERIODICAL: Kolloidal'nyy zhurnal, 1959, VOL XXI, Nr 1, pp 102-107
(USSR)

ABSTRACT: The effect of accompanying ions on the coagulating capacity of acetate ions is due to different causes, rather than only to their adsorption by the colloid phase, although this reason is the main one for some ions. The order of the coagulating action of alkaline metal acetates on the positive ion hydroxide sol is the reverse of the chloride series. The order of the coagulating action of these salts is parallel with their arrangement with respect to the activity coefficients. The inversion of the order of activity

Card 1/3

SOV/69-21-1-15/21

On the Problem of the Effect of Accompanying Ions on the Coagulator Ion.

coefficient values and also, in this case, of the coagulating action of the acetates as compared with the chlorides may be explained by the hypothesis of "local hydrolysis". The difference in the activity coefficients for the electrolytes with a common coagulating ion should be explained as due to the effect of the ion-partner on the ion-coagulator. The effect of the accompanying ion may become very important. The following scientists are mentioned in this article: Academician P.A. Rebinder, Corresponding Member of the AS of the UkrSSR, N.A. Izmaylov, A.V. Dumanskiy, G.R. Kroyt, B.V. Deryagin, Yu.M. Glazman, Vo.Ostval'd, and D.I. Mendeleyev. There are 5 graphs and 61 references, 53 of which are Soviet, 7 German and 1 Danish.

Card 2/3

SOV/69-21-1-15/21

On the Problem of the Effect of Accompanying Ions on the Coagulator Ion.

ASSOCIATION: Kafedra tekhnicheskoy i kolloidnoy khimii, Khar'kovskiy universitet im. A.M. Gor'kogo (The Chair of Technical and Colloidal Chemistry, Kharkov University imeni A.M. Gor'kiy.)

SUBMITTED: July 2, 1957

Card 3/3

10(2)

AUTHOR:

Teletov, S.G.

SOV/55-58-2-3/35

TITLE:

Questions of Hydrodynamics of Two-Phase Mixtures.I. Equations
for Hydrodynamics and Energy (Voprosy gidrodinamiki dvukh-
faznykh smesey.I. Uravneniya gidrodinamiki i energii)PERIODICAL: Vestnik Moskovskogo Universiteta, Seriya matematiki, mekhaniki, astro-
nomii, fiziki, khimii, 1958, Nr 2, pp 15-27 (USSR)ABSTRACT: The flow of a two-phase mixture has already been treated on several
occasions from the most different points of view in the Soviet literature on the subject.
At first the author gives a short survey of these papers by
M.A. Velikanov [Ref 5], N.A. Slezkin [Ref 6], G.I. Barenblatt
[Ref 7], F.I. Frankl' [Ref 8], A.N. Kolmogorov, Kh.A.
Rakhmatulin [Ref 9]. Also the author himself already treated
for several times the problem considered [Ref 1-4]. The
present paper is an improvement inasmuch as the author succeeds
by consequent averagings of all occurring equations in de-
scribing the processes of flow of a two-phase mixture in the com-
plicated case where the single components of the mixture change
their phase during the process.
There are 1 figure, and 13 references, 11 of which are Soviet,
and 2 English.

Card 1/2

4/

TELETOV, S.G. ; TKACHENKO, N.S.

Sorptive capacity of Kharkov siliceous and clay rocks. Bent. gliny
Ukr. no.2:102-107 '58. (MIRA 12:12)

1.Khar'kovskiy gosudarstvennyy universitet.
(Ukraine--Rocks, Siliceous) (Ukraine--Clay)

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755210015-4

TELETOV, S. G.; GRIGOROV, O. N.; FRIDRIKHSBERG, D. A.

"The electrokinetic properties of colloids in connection with their coagulation by electrolytes."

report presented at the Fourth All-Union Conference on Colloidal Chemistry,
Tbilisi, Georgian SSR, 12-16 May 1958 (Koll zhur, 20,5, p.677-9, '58, Taubman, A.B)

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755210015-4"

TELETOV, S. G.

"The Results of the Investigation of the Reversibility of Hydrosol Fe_2O_3 - dry gel,
and to the Effect of Copper Acetate on this Process."

report presented at the Section on Colloid Chemistry, VIII Mendeleyev Conference of
General and Applied Chemistry, Moscow, 16-28 March 1959.
(Koll. Zhur. v. 21, No. 4. pp. 509-511)

TELETOV, S.G.; SKRYL', L.V.

Sorptive capacity of Kharkov siliceous and clay rocks. Bent.
gliny Ukr. no.3:30-34 '59. (MIRA 12:12)

1. Khar'kovskiy gosudarstvennyy universitet.
(Ukraine--Rocks, Siliceous) (Ukraine--Clay)

TELETOV, S.G.

Problems concerning the formulation of experiments and the similitude theory. Trudy MIIT no.139:44-54 '61. (MIRA 16:4)

1. Institut atomnoy energii AN SSSR.
(Dimensional analysis)

TELEUGALIEV, T. M., Cand. Veter. Sci. (diss) "Rapid Diagnosis of Para-typhus Diseases of Young Animals," Leningrad, 1961, 17 pp. (Leningrad Veter. Inst.) 240 copies (KL Supp 12-61, 281).

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755210015-4

TELEUGALIYEV, Tayman Musagaliyevich; ARZYMETOV, S., red.;
KHATELOV, G., Red.

[Desinfection of livestock buildings] Maldyn kora-zhailaryn
derileu. Almaty, Kainar, 1965. 62 p. [In Kazakhstan]
(MIRA 19:1)

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755210015-4"

TELEVINOVA, N.B.

Concerning a method for observing the dispersion effect. Izv.vys.
ucheb.zav.; geol. i razv. 8 no.2:149 F '65.

(MIRA 18:3)

1. Yuzhno-Ural'skaya geofizicheskaya ekspeditsiya.

TELEYMANOV, N., agronom-entomolog

Entobacterin helped. Zashch. rast. ot vred. i bol. 19 no.1:37 '65.
(MIRA 18:3)

1. Entomologicheskiy punkt Apastovskiy rayon, s. Ten'ki, Tatarskaya
ASSR.

COUNTRY: USSR
CONTRIBUTOR: BSC INSTITUTE OF
INSECT AND NITE PESTS.

ABS. JOUR: Zer Zhur-Biologiya, No. 4, 1959, No. 16337

AUTHOR: Teleymakov, N.K.

INST:

TITLE: The effect of some organic compounds on the

ORTG. PUB.: Biokhimicheskaya Akademiya Nauk SSSR, 1959,
No. 4, 75-56

ABSTRACT: The effect of some organic compounds on the activity of the
male BSC of insect pests is studied. It is shown that
the following organic compounds have no
insecticidal properties: benzene, toluene,
cyclohexane, diethylbenzene, diisobutylbenzene,
cyclohexene, cyclohexanone, cyclohexanol,
cyclohexanecarboxylic acid, cyclohexanecarboxylic
acid ester, cyclohexanecarboxylic acid ester (0.4%),
or liquid paraffin containing 0.4% benzene,
acetone, or ethanol or 0.4% benzene. On the
contrary, when some of the above

CARD: 1/2

COUNTRY :
COUNTRY : CENTRAL & SPEC.ZOOLOGY, INSECTS

ADS. JOURN. ref Zbir.-Biolgiya, No. 4, 1959, No. 1

AUTHOR :
INCT. :
TITLE :

ORIG. PUB.:

ABSTRACT : Concentration in the first larval instar of the
caterpillar in the second instar is 6 times higher.
House-hold carpet beetle, *Catoptria pilularis*,
larvae - potential for pest control by predation.
-- A.P. Kirilenko

CARD : 2 /2

TELEYMANOV, N.K.

In cooperation with production. Zashch. rast. ot vred. i
bol. 8 no.6:40-41 Je '63. (MIRA 16:8)

1. Ten'kovskiy punkt, selo Ten'ki, Tetyushskiy rayon,
Tatarskaya ASSR.
(Tatar A.S.S.R.—Plants, Protection of)

MINORANSKIY, V.A., aspirant; SOKOLOVA, T.A.; GAMPER, N.M., kand. sel'skokhoz. nauk; LESNIKOVSKAYA, A.Ya.; VLADIMIRSKAYA, N.S.; TELEYMANOV, N.K.; STADNITSKIY, G.V., nauchnyy sotrudnik; NAUMOV, F.V., nauchnyy sotrudnik

Practices in the use of new preparations. Zashch. rast. ot vred. i bol. 8 no.8:30-31 Ag '63. (MIRA 16:10)

1. Rostovskiy gosudarstvennyy universitet (for Minoranskiy).
2. Voronezhskaya stantsiya Vsesoyuznogo instituta zashchity rasteniy (for Sokolova). 3. Vsesoyuznyy institut zashchity rasteniy (for Gamper, Lesnikovskaya, Vladimirskaia). 4) Zaveduyushchiy entomologicheskim punktom Tetyushskogo rayona, Tatarskoy ASSR (for Teleymannov).
5. Nauchno-issledovatel'skiy institut lesnogo khozyaystva, Leningrad (for Stadnitskiy, Naumov).

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755210015-4

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755210015-4"

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755210015-4

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755210015-4"

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755210015-4

~~TELEZHENKO, V.P.~~

Using V_{zz} in gravity prospecting. Trudy SNIIGGMS no.9:130-133
'60. (MIRA 14:7)
(Gravity prospecting)

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755210015-4"

31818
S/194/61/000/010/009/082
D256/D301

9,6000 (also 1013,1159)

AUTHORS: Telezhenko, V.P. and Zuyev, Z.A.

TITLE: A capacitive vibration-measuring arrangement for investigating piezoelectric vibrators used in seismic modelling

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 10, 1961, 22, abstract 10 Al72 (Tr. Sibirsk. n.-i. in-ta geol., geofiz. i mineral'n. syr'ya, 1960, no. 9, 138-142)

TEXT: The membrane of a piezoelectric vibrator was used as one plate of a flat plate capacitor, the other one being a solid metal plate. The voltage applied to the plates would show an alternating component depending upon the changes in capacitance caused by the vibrations of the membrane. The voltage was investigated by means of a synchroscope type 25 И (25 I). In order to investigate the frequency characteristics, harmonic oscillations were ap-

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Card 1/2

A capacitive vibration-measuring...

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D256/D301

plied to the piezoelectric receiver, and from the voltage changes observed across the plates of the capacitor it was possible to determine the dependence upon frequency of the ratio of the harmonic amplitude at the input of the receiver to that of the output. 3 figures.. 1 reference. [Abstracter's note: Complete translation] X

Card 2/2

TELEZHENKO, V.P.; GORSHENIN, Yu.V.

Formation of the mechanical impulse of bellshaped form in seismic
modeling. Trudy SNIIGGIM no.7:70-77 '61. (MIRA 16:7)

(Seismometers)

TELEZHENKO, V.P.; GORSHENIN, Yu.V.; ZAKHAREVICH, Yu.I.

Damping the free oscillations of a seignetolectric piezo element
in seismic modeling. Trudy SNIIGGIMS no.14:167-174 '61.
(MIRA 15:8)
(Seismic prospecting—Electronic equipment)

TELEZHENKO, V.P.

Methods for seismic modeling. Trudy SNIIGGIMS no.17:99-112
'61. (MIRA 15:9)
(Seismic prospecting)

TELKOV, N.A., prof.

Extensiv liver resections in hydatid and cancer cases. Klin.khir.
no.9:9-13 S '62. (MIRA 16:5)

1. Kafedra fakul'tetskoy khirurgii (zav. - prof. N.A. Telkov)
Astrakhanskogo meditsinskogo instituta i Omskaya oblastnaya
klinicheskaya bol'nitsa.
(LIVER—HYDATIDS) (LIVER—CANCER) (LIVER—SURGERY)

AVERKO, Ye.M.; TELEZHENKO, V.P.

Similarity theory of elastic wave phenomena. Geol. i geofiz. no.11:
124-125 '62. (MIRA 16:3)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR,
Novosibirsk.

(Elastic waves)

1963, 1962, 1967, 1968, 1970
Sov. SSSR

AUTHORS: Telezhenko, V. P. and Frolova, L. A.

TITLE: Formulas for the coefficients of the reflection, refraction, conversion and formation of leading waves for the case of liquid and solid uniform and isotropic elastic layers in contact with each other

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 2, 1963, 10, abstract 2G71 (Tr. Sibirs. n.-i. in-ta geol., geofiz. i mineral'n. syr'ya, 1962, no. 26, 167-174)

TEXT: Formulas are given for the reflection and refraction coefficients of plane waves at the boundary between liquid and solid phases. Formulas are also derived for (a) the so-called conversion coefficients at the free boundary of a liquid, which determine the ratio of the resultant normal displacement at the liquid boundary to the displacement in the incident wave, and (b) coefficients of the leading PPP and PSP waves, associated with the solid-liquid boundary. The notation and values used are those tabulated by G. I.

Card 1/2

Formulas for the ...

S/169/63/000/002/051/127
D263/D307

Petrashen' et al (Materialy kolichestvennogo izucheniya dinamiki seismicheskikh voln (Materials of a quantitative study into the dynamics of seismic waves), vols 1 and 2, izd. LGU, 1957). [Abstracter's note: Complete translation.]

Card 2/2

ZAKHAREVICH, Yu.I.; TELEZHENKO, V.P.; GORSHENIN, Yu.V.

Improvement of an ultrasonic UZS-2(31) pulse seismoscope. Trudy
SNIIGGIMS no.27:79-86 '62. (MIRA 16:9)

1. Sibirskiy nauchno-issledovatel'skiy institut geologii, geofiziki
i mineral'nogo syr'ya.
(Seismometry)

TELEZHENKO, V.P.; GORSHENIN, Yu.V.; DOROGINITSKAYA, L.M.

Dynamic characteristics of seismic recordings in the case of wedge-shaped layers based on modeling data. Trudy SNIIGGIMS no.27:95-121 '62. (MIRA 16:9)

1. Sibirskiy nauchno-issledovatel'skiy institut geologii, geofiziki i mineral'nogo syr'ya.
(West Siberian Plain—Seismic prospecting)

TELEZHENKO, V.P.

Dynamic characteristics of waves reflected from wedged-out
layers according to modeling data. Trudy SNIIGGIMS no. 30:
59-68 ' 64 (MIRA 19:1)

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755210015-4

DOROGINITSKAYA, L.M.; TELEZHENKO, V.P.; FROLOVA, L. A.

Experimental study of the reflection coefficient and propagation
velocities of elastic waves in fluid-saturated porous media.
Trudy SNIIGGIMS no. 30:98-110 ' 64 (MIRA 19:1)

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755210015-4"

TELEZHENETS'KAYA, M.V.; YUNUSOV, S.Yu.

Structure of thalmine and thalmidine. Dokl. AN SSSR 162 no.2:
354-355 My '65. (MIRA 18:5)

1. Institut khimii rastitel'nykh veshchestv AN UzSSR. 2. Chlen-korrespondent AN SSSR (for Yunusov).

KOCHETKOV, L.; REBROV, V.; TKLEZHIN, N.

The wide use of chemistry in production and progressive
structural movements in industry. Vop. ekon. no.5:3-14
My '63. (MIRA 16:6)

(Chemistry, Technical)
(Russia--Industries)

KOCHETKOV, L.; REBROV, V.; TELEZHIN, N.

Large-scale chemistry and interbranch combining in industry.
Vop. ekon. no.1:13-25 Ja '64. (MIRA 17:3)

KOCHETKOV, Leonid Mikhaylovich REHROV, V.D.; TELEZHIN, N.A.;
SHISHANKOV, V.S., red.

[Chemicalization and integration in U.S.S.R. industry]
Khimizatsiya i kombinirovaniye v promyshlennosti SSSR.
Moskva, Mysl', 1965. 149 p. (MIRA 18:8)

SHANIN, Aleksey Ivanovich; TELEZHKO, M.I., nauchnyy red.; SHAURAK, Ye. N., red.; LEVOCHKINA, L.I., tekhn. red.

[Radio receivers] Radiopriemnye ustroistva. Leningrad, Gos. soiuznoe izd-vo sudostroit. promyshl., 1958. 387 p. (MIRA 11:11)
(Radio--Receivers and reception)

BELOTSERKOVSKIY, Grigoriy Bentsionovich; BABKIN, N.I., inzh.,
retsenzent; ZHDANOV, V.K., inzh., retsenzent; KALANTAROV,
M.N., inzh., retsenzent; TELEZHKO, M.I., inzh., retsenzent;
FAKTOPOVICH, M.D., inzh., retsenzent; FEDOTOV, M.D., inzh.,
retsenzent; SAMOYLOV, G.V., inzh., red.; IVANOV-TSYGANOV,
A.I., kand. tekhn. nauk, red.; BOGOMOLOVA, M.F., red. izd-va;
ROZHIN, V.P., tekhn. red.

[Antennas] Antenny. Izd.2., perer. i dop. Moskva, Oborongiz,
1962. 491 p. (MIRA 16:2)
(Antennas (Electronics))

TELEZHNIKOV, I. F., (Grad Stud)

Dissertation: "An Investigation of the Loading Capacity of a Toroidal Friction Pair of Steel-Textolite." Cand Tech Sci, Central Sci Res Inst of Technology and Machine Building (TsNIITMash), 28 Jun 54. (Vechernaya Moskva, Moscow, 18 Jun 54)

SO: SUM 318, 23 Dec 1954

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755210015-4

TELEZHNIKOV, I.F., inzh.

Selecting efficient geometrical parameters for toroid friction
variable-speed mechanisms. Vest.mash. 37 no.12:47-51 D '57.
(MIRA 10:12)
(Mechanical movements)

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755210015-4"

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755210015-4

KARPINSKIY, V.I., kand. tekhn. nauk; TSIMBARG, Ye.I., inzh.; PALAGIN, Ye.V.,
inzh.; SUBBOTINA, V.N., inzh.; TELEZHNIKOV, N.S., inzh.

Beam spans for automobile bridges of centrifuged blocks. Transp. stroi,
15 no.5:26-28 My '65. (MIRA 18:7)

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755210015-4"

TSIPAROVICH, M.V., kand.tekhn.nauk; MIKHAI'CHUK, A.M., inzh., retsenzent;
TBLINZHNIKOV, M.V., inzh., otvetstvennyy redaktor; KOVALENKO, N.I.
tekhn.red.

[The washer in a coal concentration plant] Moishchik ugleobogatitel'-
noi fabriki. Sverdlovsk, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi
i tsvetnoi metallurgii, 1951. 95 p.
(Coal preparation)

TELEZHNIKOV, Vasiliy Yevgen'yevich; POD^oYAKOV, V.S., redaktor; KONYA-SHINA, A., tekhnicheskiy redaktor

[Foundations for equipment in small and medium-sized electric power stations] Fundamenty pod oborudovaniye elektrostantsii malykh i srednikh moshchnostej. Moskva, Izd-vo Ministerstva komunal'nogo khoziaistva RSFSR, 1956. 149 p. (MIRA 9:4)
(Electric power plants) (Foundations)

TELEZHNIKOV, Vasiliy Yevgen'yevich; SHAPIRO, N.S., red.; AKATOVA, V.O.,
red. izd-va; VOLKOV, S.V., tekhn. red.

[Construction of small and medium size steam turbine electric
power stations] Stroitel'naya chast' paroturbinnykh elektrostan-
tsii maloi i srednei moshchnostei. Moskva, Izd-vo N-va kommun.
khoz. RSFSR, 1958. 243 p. (MIRA 11:9)
(Electric power plants)

BALAKIN, L.A., inzh.; TELEZHNIKOV, Ye.F., inzh.

Using a hydraulic jack to straighten tube plate for heat
exchangers. Energomashinostroenie 4 no.3:40-41 Mr '58.

(MIRA 11:5)

(Hydraulic jacks) (Sheet-metal work)

TELEZHNIKOV, Ye.P., inzh.; BALAKIN, L.A., inzh.

Machine for bending flanges from strip. Energomashinostroenie⁴
no. 6:40-42 Je '58. (MIRA 11:8)
(Flanges)
(Metalworking machinery)

S/25/60/000/009/011/017
A161/A130

1.2500 2708.1573

AUTHORS: Telezhnikov, Ye.F., Stasilovich, P.A.

TITLE: Thin-Wall Vessels Welded Automatically

PERIODICAL: Avtomaticheskaya svarka, 1960, No. 9, pp. 65-70
¹³⁻

TEXT: Detailed description is given of special welding devices, 600-1000 mm in diameter and up to 10 m length, designed by the authors for welding thin-wall mild steel vessels for the chemical industry. Longitudinal seams on single shells are welded on a stand (Fig. 1) with rollers (2) on which the shell moves in, a cramp (3) holding a flux and a beam (5) bearing a row of air cylinders (6) which lift the beam (7) with a copper band up to the joint. The welding "tractor" (9) starts work after the edges are aligned. Shells with a finished seam are bevelled at both ends on a specially equipped lathe (Fig. 2), and then their diameter is gauged on a special gauging machine (Fig. 3) with a cone (1), rollers (2) and a spreading ring split into six

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S/125/60/000/009/011/017
A161/A130

Thin-Wall Vessels Welded Automatically

sections. An electric motor with a transmission belt and a spur gear couple rotates a nut (4) in the gear (5), and a screw (6) is turned back and forth spreading or contracting the ring. About 60 mm shell length are gauged with every spreading of the 60 mm wide ring. Next, single shells are tack-welded with each other on a special roller stand (not shown) and moved to another special stand for annular welds (Fig. 4) with a motor (3), a reduction gear (4), a grip (5) transmitting rotation to the work, rollers (6) on which the work rotates, and an automatic welder (9) moving on a frame (8) along the work (7) from joint to joint. The pneumatic backing device of this stand (Fig. 5) is a 6x60 mm copper ring (1) suspended by two rollers on a support (3) that is connected to the piston rod (4) of an air cylinder (5) installed on a carriage (6) held by a rod (7) during welding when the shell rotates. Air with 2-3 atm pressure let into the cylinder lifts the ring (1) and penetrates to the shell. The outer rollers (8) prevent the ring from shifting and slipping off the backing rollers. The air cylinder is connected to the air network by a reduction valve to maintain constant pressure, and a pressure gauge is provided. The welding "tractor" (motorized welder) used is an YT-1250-3 (UT-1250-3), and the welding material is 2.5 - 3 mm Ce -08 (Sv-08)

Card 2/6

Thin-Wall Vessels Welded Automatically

S/125/60/000/009/011/017
A161/A130

wire and OCU -45 (OSTs-45) flux. The spherical vessel bottoms are welded to the shells in same way but on a separate stand without a grip for rotation, i.e. the work is rotated on it by the supporting rollers. Flanges are welded to the shells with the use of a backing device mounted on a T -25 (T-25) welding manipulator designed by Institut elektrosvarki im. Ye.O. Patona (Electric Welding Institute im. Ye.O. Paton) (Fig. 6). The radial ribs of the manipulator (2) bear a ring (1) and are inclined to leave space for attaching the backing device (4). The bushing (3) is connected to the output shaft of the manipulator rotating the work. The AYC -1000 (ADS-1000) welder moves on guides on a usual stationary frame. Welding with the described devices is fully automated. There are 6 figures.

ASSOCIATION: Moskovskiy gorodskoy sovnarkhoz (The Moscow City Sovnarkhoz)

SUBMITTED: April 6, 1960

Card 3/6

ABDULOV, Yu.P.; TELEZHNIKOVA, G.N.

Investigating the cold rolling of steel strip with welded butt
joints. Trudy Inst.met.UFAN SSSR no.9:77-81 '62. (MIRA 16:10)

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755210015-4

SHILOV, V.I.; KORZH, V.P.; Prinimalni uchastiye: SPITSIN, V.D.;
POKHLEBAYEV, L.A.; ODINOKOVA, L.P.; ALEKSEYEV, V.I.; TELEZHNKOVA, G.N.

Rolling of titanium alloy foil. Trudy Inst.met.UFAN SSSR no.9:
101-105 '62.
(MIRA 16:10)

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755210015-4"

12-1-1

COUNTRY	:	POLAND
CATEGORY	:	Cultivated Plants - Industrial, Oleiferous, Sugar. M
NAME	:	ZPPCBW, Wola, 1958, No.63506
ATTACH	:	<u>Teluszynska, J.</u>
INST.	:	-
TITLE	:	Trials on the Cultivation of Chufa.
ORG. PUB.	:	Roczn. nauk rolniczych., 1956, A74, No. 1, 91-110
NOTES	:	Seeds obtained from plants in the area of the city of Wroclaw (Poland) secured production of a yield of chufa tubers of not less than 100 c/ha. The chemical composition of the tubers was similar to the composition of the tubers in the principal regions of chufa cultivation.

Carri: 1/1

MILANOWSKA, Kazimiera; JANKOWIAK, Krystyna; TELEZYNSKA, Teresa

The course of regression of muscle paralysis in poliomyelitis.
(Functional recovery in paralysed muscles in poliomyelitis and
segmental innervation). Chir. narz. ruchu ortop. polska. 26
no.3:253-257 '61.

1. Z Kliniki Ortopedycznej AM w Poznaniu Kierownik: prof. dr W.Dega.
(POLIOMYELITIS)

TBILIA, A.V., kandidat meditsinskikh nauk

Development of peptic ulcer resulting from a phytobezoar. Khirurgia
(MLRA 10:2)
32 no.12:29-31 D '56.

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - prof. I.K.Pipia)
lechebnogo fakul'teta Tbilisskogo gosudarstvennogo meditsinskogo
instituta.

(HENOSES, compl.
peptic ulcer caused by phytobezoar, surg.)

(PEPTIC ULCER, etiol. and pathogen.
phytobezoar, surg.)

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CIA-RDP86-00513R001755210015-4

GVAMICHAVA, A.R.; TRLIA, A.V.; ZEN'KO, N.I.

[Bezoars of stomach and intestines in man] Bezoary zheludka i
kishok u cheloveka. Tbilisi, Sabchota Sakartvelo, 1958. 80 p.
(BEZOAR) (MIRA 11:9)

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755210015-4"

TEMLIA, A.V.

Clinical aspects and treatment of peptic ulcer complicated by
stenosis. Nov.khir.a.-t.h. no.6:77-81 N-D '58. (MIRA 12:3)

1. Kafedra fakul'tetskoy khirurgii (zav. - prof. I.K. Pipia) Tbilisi-
skogo meditsinskogo instituta. Adres avtora: Tbilisi, Meditsinskiy
institut.

(PEPTIC ULCER)